

**CLAIM AMENDMENTS**

Please amend the claims as follows:

Claims 1-12. **(Cancelled)**

13. **(Currently Amended)** ~~An isolated~~ nucleic acid ~~which comprises~~ comprising the sequence of SEQ ID No. ~~NO: 15~~ or a subsequence of at least 50 nucleotides of SEQ ID No. ~~NO: 15~~ or the complement thereof.

14. **(Currently Amended)** ~~An isolated~~ nucleic acid which hybridizes under stringent conditions including a wash step in 0.2x SSC at 65°C to the nucleic acid consisting of the nucleotide sequence set forth in SEQ ID No. ~~NO: 15~~.

15. **(Currently Amended)** The isolated nucleic acid of claim 14 which encodes a sulfotransferase ~~activity~~.

Claims 16-20 **(Cancelled)**

21. **(New)** An isolated nucleic acid encoding a polypeptide comprising an amino acid sequence having at least 90% identity with SEQ ID NO: 16, wherein the polypeptide has a sulfotransferase activity.

22. **(New)** The isolated nucleic acid of claim 21, encoding a polypeptide comprising an amino acid sequence having at least 99% identity with SEQ ID NO: 16.

23. **(New)** The isolated nucleic acid of claim 21, encoding a polypeptide comprising an amino acid sequence having 100% identity with SEQ ID NO: 16.

24. **(New)** The isolated nucleic acid of claim 21, encoding a polypeptide consisting of an amino acid sequence having 100% identity with SEQ ID NO: 16.
25. **(New)** An isolated nucleic acid encoding a polypeptide having a sulfotransferase activity wherein the nucleic acid comprises a nucleotide sequence having at least 90% identity with SEQ ID NO: 15.
26. **(New)** The isolated nucleic acid of claim 25, wherein the nucleic acid comprises a nucleotide sequence having at least 99% identity with SEQ ID NO: 15.
27. **(New)** The isolated nucleic acid of claim 25, wherein the nucleic acid comprises a nucleotide sequence having 100% identity with SEQ ID NO: 15.
28. **(New)** The isolated nucleic acid of claim 25 consisting of the nucleotide sequence set forth in SEQ ID NO: 15.
29. **(New)** A vector comprising the nucleic acid of claim 21.
30. **(New)** A vector comprising the nucleic acid of claim 25.
31. **(New)** A vector comprising the nucleic acid of claim 26.
32. **(New)** A vector comprising the nucleic acid of claim 27.
33. **(New)** An expression vector comprising the nucleic acid of claim 21.
34. **(New)** An expression vector comprising the nucleic acid of claim 25.
35. **(New)** An expression vector comprising the nucleic acid of claim 26.

36. **(New)** An expression vector comprising the nucleic acid of claim 27.
37. **(New)** A cell comprising the vector of claim 33.
38. **(New)** The cell of claim 37, which is a prokaryotic cell.
39. **(New)** The cell of claim 37, which is an eukaryotic cell.
40. **(New)** A cell comprising the vector of claim 34.
41. **(New)** The cell of claim 40, which is a prokaryotic cell.
42. **(New)** The cell of claim 40, which is an eukaryotic cell.
43. **(New)** A cell comprising the vector of claim 35.
44. **(New)** The cell of claim 43, which is a prokaryotic cell.
45. **(New)** The cell of claim 43, which is an eukaryotic cell.
46. **(New)** A cell comprising the vector of claim 36.
47. **(New)** The cell of claim 46, which is a prokaryotic cell.
48. **(New)** The cell of claim 46, which is an eukaryotic cell.
49. **(New)** A plant comprising a heterologous nucleic acid of claim 21.
50. **(New)** The plant of claim 49, wherein the plant is a monocotyledon.
51. **(New)** The plant of claim 49, wherein the plant is a dicotyledon.
52. **(New)** A plant comprising a heterologous nucleic acid of claim 25.

53. **(New)** The plant of claim 52, wherein the plant is a monocotyledon.

54. **(New)** The plant of claim 52, wherein the plant is a dicotyledon.

55. **(New)** A plant comprising a heterologous nucleic acid of claim 26.

56. **(New)** The plant of claim 55, wherein the plant is a monocotyledon.

57. **(New)** The plant of claim 55, wherein the plant is a dicotyledon.

58. **(New)** A plant comprising a heterologous nucleic acid of claim 27.

59. **(New)** The plant of claim 58, wherein the plant is a monocotyledon.

60. **(New)** The plant of claim 58, wherein the plant is a dicotyledon.